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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/767,558	01/22/2001		Timothy B. Meluch	ALT-5612 CON of DIV I	3046
75	590	12/07/2001			
Paula Kelly, E	Esq.		EXAMINER		
Renal Division			FORTUNA, ANA M		
Baxter Internati					
One Baxter Parkway Deerfield, IL 60015				ART UNIT	PAPER NUMBER
2001110112, 122	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			1723	_
				DATE MAILED: 12/07/2001	フ

Please find below and/or attached an Office communication concerning this application or proceeding.

MF-15

Office Action Summary

Application No. **09/767,558**

Applic

Meluch et al

Examiner

Ana Fortuna

Art Unit **1723**

	!	
	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address
A SH	for Reply ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION.	TO EXPIRE 3 MONTH(S) FROM
af - If the	ter SIX (6) MONTHS from the mailing date of this communic	FR 1.136 (a). In no event, however, may a reply be timely filed ation. , a reply within the statutory minimum of thirty (30) days will
- If NC cc - Failur - Any ⊦	period for reply is specified above, the maximum statutory immunication. The to reply within the set or extended period for reply will, by reply received by the Office later than three months after the	period will apply and will expire SIX (6) MONTHS from the mailing date of this statute, cause the application to become ABANDONED (35 U.S.C. § 133). It is mailing date of this communication, even if timely filed, may reduce any
ea Status	rned patent term adjustment. See 37 CFR 1.704(b).	
1) 💢	Responsive to communication(s) filed on Sep 24, 2	2001
2a) 💢	This action is FINAL . 2b) ☐ This act	tion is non-final.
3) 🗆	Since this application is in condition for allowance closed in accordance with the practice under Ex pa	except for formal matters, prosecution as to the merits is arree Quayle, 1935 C.D. 11; 453 O.G. 213.
Disposi	tion of Claims	
4) 💢	Claim(s) 1-18	is/are pending in the application.
4	4a) Of the above, claim(s)	is/are withdrawn from consideration.
5) 🗆	Claim(s)	is/are allowed.
6) 💢	Claim(s) <u>1-18</u>	is/are rejected.
7) 🗌	Claim(s)	is/are objected to.
8) 🗆	Claims	are subject to restriction and/or election requirement.
Applica	ntion Papers	
9) 🗌	The specification is objected to by the Examiner.	
10)	The drawing(s) filed on is/are	objected to by the Examiner.
11)	The proposed drawing correction filed on	is: a) \square approved b) \square disapproved.
12)	The oath or declaration is objected to by the Exam	iner.
13)□	under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign p All b) Some* c) None of:	riority under 35 U.S.C. § 119(a)-(d).
	1. \square Certified copies of the priority documents have	ve been received.
	2. Certified copies of the priority documents have	ve been received in Application No.
	 Copies of the certified copies of the priority d application from the International Bure ee the attached detailed Office action for a list of th 	
د ∐(14	Acknowledgement is made of a claim for domestic	
Attachm		18) Interview Summary (PTO-413) Paper No(s).
, ,	otice of References Cited (PTO-892) otice of Dreftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent Application (PTO-152)
	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20] Other:

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DETAILED ACTION

Claim Rejections - 35 U.S.C. § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-8, 10-14, 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Pemawansa (5,279,739)('739). Reference '739 discloses the claimed polysulfone membrane having uniform structure and made from a mixture containing a solvent for the polysulfone e.g. polyarylether sulfone, polysulfone, polyether sulfone (abstract, column 3, lines 43-68, column 4, and column 6, lines 1-22). Regarding to claims 5, and 16-17, the membrane made including mixtures of solvent and non-solvents or pore formers is also disclosed (column 5, lines 25-67). As to claims 4, 12, 13, 14, 16, directed to the membrane made of specific list of solvents, the solvent is disclosed by reference '739, e.g. sulfolane (tetramethylene sulfone) (column 5, lines 59-61). Regarding claims 6, 18, reference '739 discloses the non-solvent (or pore former) as part of the membrane making mixture, e.g. ethylene glycol (column 5, lines 61-67). Regarding claims 10-11, the composition is also disclosed (column 5, lines 25-50).

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Claim Rejections - 35 U.S.C. § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 15, 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Pemawansa (5,279,739)('739). Reference '739 discussed in the paragraph above discloses the solvents and non solvent of the polysulfone, the ratio of solvent to non-solvent is not disclosed, however, adding from 1 to 10 % or ethylene glycol or pore former (non-solvent), and modifying the amount depending on the final pore desired in the membrane is disclosed. Therefore, adjusting the polymer mixture viscosity by adjusting the amount of solvent, and adjusting the ratio to obtaining a desire pore size it would have been obvious to one skilled in the art. As to claim 9, the use of bisphenol A polysulfone as equivalent to polysulfone is admitted by Applicant in claim 8.

Response to Amendment

4. In Applicant's remarks filed on 9/24/2001, the rejection under 102 (b) as anticipated by Pemawansa is argued; the arguments are based in the lack of teaching of the membrane having "uniform structure", and in that the membrane is made by a melt-spun process. The rejection is maintained because the product as claimed is not limited to a particular process, and even though the process steps are include, product by process claims are products. In response to the

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uniformity of the membrane reference '739 teaches making the membrane from a solution containing the polysulfone, solvent and non-solvent mixture totally blended, casted on a substrate and dispersed by a doctor blade in an uniform manner to produce a membrane with thickness of 10 mils, and with smooth surface (column 5, lines 59-68, column 6, lines 1-14), therefore, the final membrane is homogeneous and uniform. Since the claims are not directed to a particular process which modifies the final membrane structure, as compared to the structure produced by the membrane of '739 from the same composition, any internal structure is considered to be inherent of the product.

In response to arguments in page 2, second paragraph, the membrane of '739 can be either a microfiltration, ultrafiltration, reverse osmosis or nanofiltration membrane.

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

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however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

6. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure, in particular directed to polysulfone hollow fiber membranes made by melt spun

process.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ana Fortuna whose telephone number is (703) 308-3857. The

examiner can normally be reached on Monday-Friday from 9:30 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Wanda Walker, can be reached on (703) 308-0457. The fax phone number for the organization

where this application or proceeding is assigned is (703) 872-9310 for regular responses, and

(703)872-9311 for after finals.

Ana Fortuna

November 29, 2001

ANA FORTUNA
PRIMARY EYAMINER

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